

**West Texas A&M University  
Advising Services  
Degree Checklist  
2015-2016**

(For assistance completing this form, contact Advising Services at 806-651-5300)

NAME: \_\_\_\_\_ WT ID: \_\_\_\_\_ DATE: \_\_\_\_\_

**Pre-Engineering  
Department of Engineering and Computer Science  
ECS Building, Room 119 651-5257**

<b>CORE CURRICULUM COURSES: 42 HOURS ♦</b>		<b>HRS</b>	
<b>Communication (Code 10)</b>			
ENGL 1301 Introduction to Academic Writing and Argumentation	3		
COMM 1315, 1318, or 1321	3		
<b>Mathematics (Code 20)</b>			
See University Core Requirements below	(3)		
<b>Life and Physical Sciences (Code 30)</b>			
See University Core Requirements below	(6)		
<b>Language, Philosophy and Culture (Code 40)</b>			
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; PHIL 1301, 2374; SPAN 2311*, 2312**/, 2313*, or 2315* <span style="float: right;"><b>Choose 1</b></span>	3		
<b>Creative Arts (Code 50)</b>			
ARTS 1303, ARTS 1304; DANC 2303; HUMA 1315; MUSI 1306 or 1208 and 1209* (extra MUSI hour moves to Code 90); OR THRE 1310 <span style="float: right;"><b>Choose 1</b></span>	3		
<b>American History (Code 60)</b>			
HIST 1301, 1302, 2301, 2381 <span style="float: right;"><b>Choose 2</b></span>	6		
<b>Government/Political Science (Code 70)</b>			
POSC 2305 and 2306	6		
<b>Social and Behavioral Sciences (Code 80)</b>			
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 <span style="float: right;"><b>Choose 1</b></span>	3		
<b>Institutionally Designated Option (Code 90)</b>			
See University Core Requirements below	(6)		
<b>PRE-ENGINEERING REQUIREMENTS: 49 HOURS—See NOTE</b>			
<ul style="list-style-type: none"> <li>• A grade of "C" or better must be earned in all courses required for major.</li> <li>• A grade of "C" or better is mandatory for all prerequisites listed for ECS courses required for engineering majors.</li> </ul>			
<b>UNIVERSITY CORE REQUIREMENTS: 15 HOURS</b>			
<b>CORE 20</b> MATH 2413*[3] Calculus I	3		
<b>CORE 30</b> PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II	6		
<b>CORE 90</b> MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1]	3		
<b>CORE 90</b> ENGL 2311* Introduction to Professional and Technical Communication	3		
<b>ADDITIONAL PRE-ENGINEERING REQUIREMENTS: 34 HOURS</b>			
ENGR 1301*, 1301L Fundamentals of Engineering	3		
CS 1315* Programming Fundamentals OR CS 1337, 1337L Intro. to Object-Oriented Programming	3		
ENGR 1304, 1304L Engineering Graphics	3		
ENGR 1375**/, 1375L Principles of DC and AC Circuits	3		

**Non-Degree Pre-professional Program  
PRE.ENGR (128)—See NOTE**

ENGR 2301* Engineering Statics	3	
ENGR 2302* Engineering Dynamics	3	
ENGR 3202* Fundamentals of Engineering Economics	2	
CHEM 1411*, 1411L Chemistry I	4	
MATH 2414* Calculus II	4	
MATH 3340* Calculus III	3	
MATH 3342* Differential Equations I	3	
<b>TOTAL HOURS OF ABOVE COURSES</b>	<b>76</b>	

♦ The core curriculum must total **exactly 42 hours**; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.  
\* Indicates prerequisites—see catalog for more information.  
\*\* Or an equivalent course (second year, second semester) in a foreign language.  
\*\*\* Not required for Civil Engineering.

**NOTE: This is NOT a degree plan. Completion of the Pre-Engineering Program will prepare students to enter WTAMU's Mechanical, Civil, or Environmental Engineering Programs or to transfer to another four-year university to complete their degree in other engineering disciplines.**

<b>Program Admission Requirements</b>	
<b>Criteria for admission into the Mechanical Engineering Program:</b>	
<ul style="list-style-type: none"> <li>• Overall GPA of at least 2.25.</li> <li>• Completion of the pre-engineering sequence: MATH 2413, 2414, PHYS 2425, 2426, ENGR 1301, 2301, 2302, and CS 1315 or 1337 with a GPA of at least 2.75.</li> <li>• Successful completion of the entrance interview with adviser.</li> </ul>	
<b>Criteria for admission to the Civil Engineering Program:</b>	
<ul style="list-style-type: none"> <li>• Overall GPA of at least 2.25.</li> <li>• Completion of the pre-engineering sequence: MATH 2413, 2414; CHEM 1411, 1412; ENGR 1301, 1304, 2301, and 2302 with a GPA of at least 2.75.</li> <li>• Successful completion of the entrance interview with adviser.</li> </ul>	

